



**Department of Environmental Sciences**

**College of Science**

**Salahaddin University - Erbil**

**Subject: Public Health**

**Course Book – Year 1**

**Lecturer name:**

**Halala Rahman Qader- Practical**

**Academic Year: 2022/2023**

# Course Book

<b>1. Course name</b>	<b>Public health</b>
<b>2. Lecturer in charge</b>	<b>Halala Rahman Qader - Practical</b>
<b>3. Department/ College</b>	<b>Department of Environmental Sciences/ College of Science</b>
<b>4. Contacts</b>	<b>Halala.qader@su.edu.krd</b>
<b>5. Time (in hours) per week</b>	<b>2hours per a week</b>
<b>6. Office hours</b>	
<b>7. Course code</b>	<b>SE 104 Public Health</b>
<b>8. Teacher's academic profile</b>	
<b>9. Keywords</b>	<b>Health, mental and physical wellbeing, prevention, social, policy</b>
<b>10. Course overview:</b>	
<p>This course outlines the history of public health, and explores the modern efforts at quantifying health and intervening to improve the human health. Public health often is divided into five core disciplines: epidemiology, biostatistics, environmental health, social and behavioral sciences, and health policy and management. This course covers these subspecialties and also examines how public health is structured. We discuss quantitative and qualitative study designs, including a special look at epidemiology, infectious diseases, and risk management and communication. We end with a projection of where public health is likely to go in the future.</p>	
<b>11. Course objective:</b>	
<p>The objectives of this course are:</p> <ol style="list-style-type: none"> <li>1. Introduce 1<sup>nd</sup> year students with scientific terminologies used in public health.</li> <li>2. Identify the basic tools of public health inquiry to assess community health status.</li> <li>3. Teach the students the methods used to perform a scientific review and research in public health.</li> <li>4. Introduce the students to ways they can apply these teaching to their future jobs.</li> </ol>	
<b>12. Student's obligation</b>	
<ul style="list-style-type: none"> <li>• Attendance will be taken in the first 5min of each lecture. During which if you are not present, you will be recorded as an absentee.</li> <li>• The students are required to keep their mobile devices quiet at all times during the lectures.</li> <li>• The students are expected to remain respectful and civil to their fellow students.</li> <li>• Any verbal and/or written form of cheating is not tolerated.</li> <li>• The exams once set, will not be postponed. You will be reminded with a note on the students' note-board several days before the exam.</li> <li>• English language is used in the lectures. Students are expected to answer exam questions in English language, only.</li> </ul>	

Practical Marks (35%)

- \* Mean of two practical examinations: 14 %
- \* Daily quizzes: 7%
- \* project: 14 %

**13. Forms of teaching**

PowerPoint presentation, board, videos, and class discussions

**14. Assessment scheme**

The student assessment will be based on scores obtained in the written exams and quizzes. There will be at least two written exams. The scores will be announced as one annual quest grade on 50. The final exam is on 50 points total.

**15. Student learning outcome:**

By completing this course, the students can:

1. Become familiarized with vocabularies used in public health studies.
2. Be able to describe general public health subspecialties.
3. Be able to characterize how these subspecialties works and applied locally.
4. Understand how the health of public can be measured and predicted.

**16. Course Reading List and References:**

Andresen, E., & Bouldin, E. D. F. (2010). *Public health foundations: Concepts and practices*. San Francisco: Jossey-Bass.

**17. The Topics:**

**Timeline**

An introduction to public health science, basic ideas on research, ethics in research  
**The five disciplines of public Health: Epidemiology I**  
 Epidemiology II  
 Environmental Health I  
 Environmental Health II  
 Social and Behavioural Health I  
 Exam 1  
 Social and Behavioural Health II  
 Health Administration I  
 Health Administration II  
 Statistics in Public Health  
 Public Health and terrorism  
 Future of public Health in Iraqi Kurdistan  
 Case studies + Student presentation  
 Exam 2

Week 1

Week2

Week3

Week4

Week5

Week6

Week7

Week8

Week9

Week10

Week11

Week12

Week13

Week14

Week15

**18. Practical Topics**

Topic	Week
An introduction to public health science, basic ideas on research, ethics in research	1

<b>The five disciplines of public Health: Epidemiology I, collection of data</b>	<b>2</b>
<b>Collection of blood specimens, Principle, Materials and reagents</b>	<b>3</b>
<b>Measuring Blood Pressure</b>	<b>4</b>
<b>Epidemiology II, data analysis an interpretation</b>	<b>5</b>
<b>Environmental Health I, measurement of pollutants (air, water, soil, in humans)</b>	<b>6</b>
<b>Environmental Health II, interpretation of the results and writing a report</b>	<b>7</b>
<b>Social and Behavioral Health I, questionnaires</b>	<b>8</b>
<b>Exam 1</b>	<b>9</b>
<b>Social and Behavioral Health II, interpretation of data of the questionnaire</b>	<b>10</b>
<b>Statistics in public health</b>	<b>11</b>
<b>Health Administration I, how to contact governmental agencies and NGO organizations</b>	<b>12</b>
<b>Health Administration II, how to defend your position and practice</b>	<b>13</b>
<b>Public Health and terrorism</b>	<b>14</b>
<b>Future of public Health in Iraqi Kurdistan, students write their suggestions and findings in a report</b>	<b>15</b>
<b>Case studies + Student presentation</b>	<b>16</b>
<b>Exam 2</b>	<b>17</b>

### 19. Examinations:

#### Theory:

**Exams will be mixture of the following styles:**

1. Multiple choice
2. Short assay
3. True or false
4. Diagrams
5. Online Moodle quizzes

**During Answering:** the student should:

1. Understand the questions.
2. Answer the questions asked during the assigned exam time.
3. Answer should be short and precise.

#### **Examples of exam questions**

- What is the science of public health?
- How many subspecialties are there in public health?

- Assessment of case studies.
- How you solve a public health problem

**Practical Examination:**

Q: Answer the following questions.

- 1-Write the steps to get data from public hospital in your city.
- 2- Why is a tourniquet necessary when drawing blood?
- 3- What is the purpose of taking blood pressure?
- 4- How to make a case study in your department (practically)?

**20. Extra notes:**

**21. Peer review** پيداچووننهوہی ھاوہل

This course book has to be reviewed and signed by a peer. The peer approves the contents of your course book by writing few sentences in this section.

*(A peer is person who has enough knowledge about the subject you are teaching, he/she has to be a professor, assistant professor, a lecturer or an expert in the field of your subject).*

ئەم كۆرسبووكە دەبیت لەلایەن ھاوھلێكى ئەكادیمیەو سەر بكریت و ناوھروكى بابتەكانى كۆرسەكە پەسەند بكات و جەند وشەیهك بنوسیت لەسەر شیاوی ناوھروكى كۆرسەكە و واژووی لەسەر بكات.  
ھاوھل ئەو كەسەیه كە زانیاری ھەبیت لەسەر كۆرسەكە و دەبیت پلەى زانستی لە ماموستا كەمتر نەبیت.